

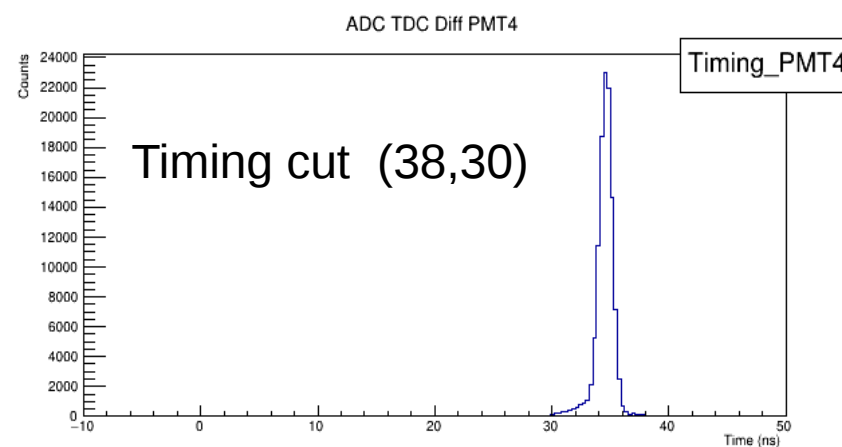
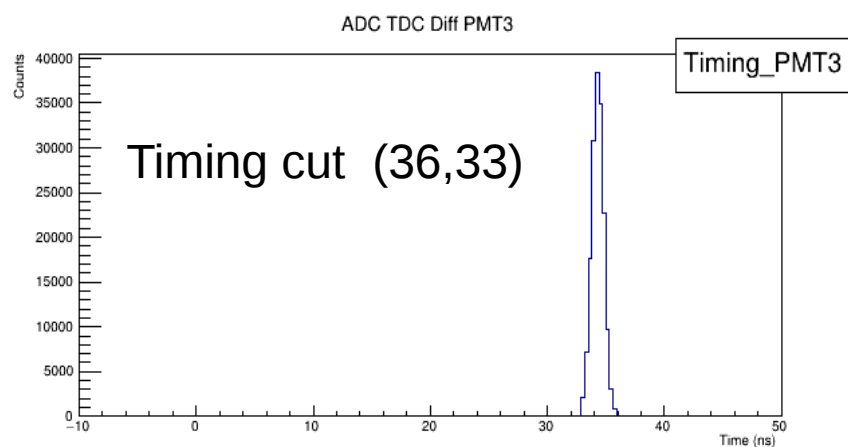
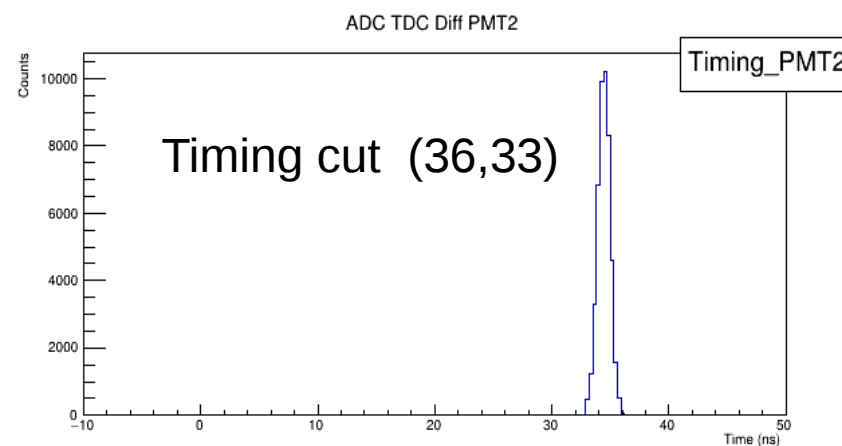
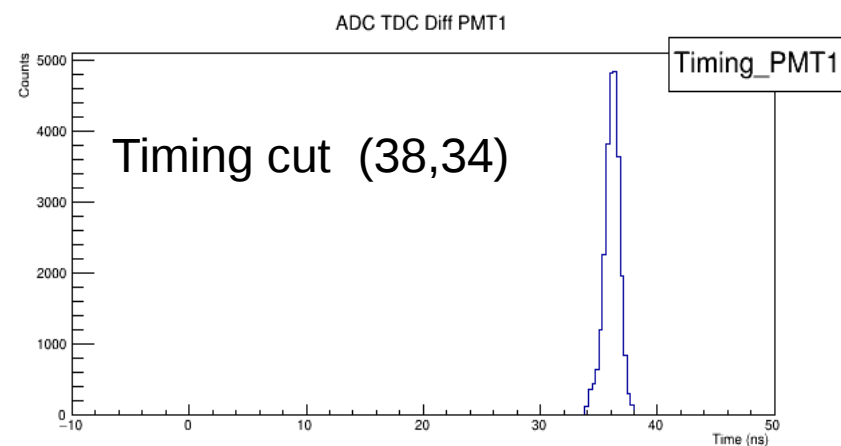
Analysis Updates Calibration of HGC (SHMS)

Vijay Kumar

Run Numbers 7979, 7980

SHMS Positive polarity

Timing cuts have been perform on each PMTs

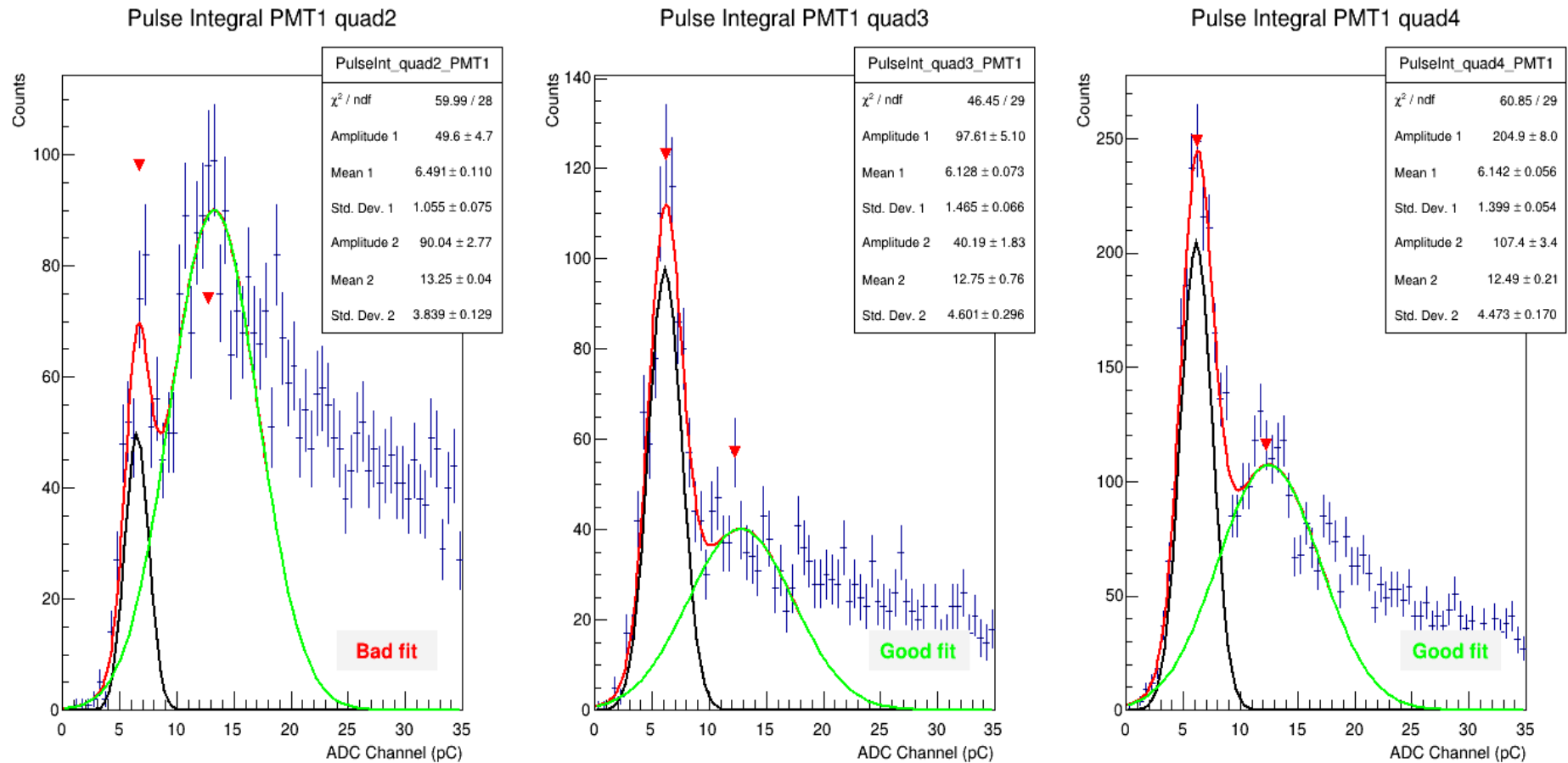


Run Numbers 7979, 7980 SHMS Positive polarity

Only those peaks have considered for the mean calculations, If have amplitude > 90

“Good fit” draw if RChi2/NDF in 0.5 – 10 range, considering amplitude condition is full filled. Other than this draw “Bad fit”.

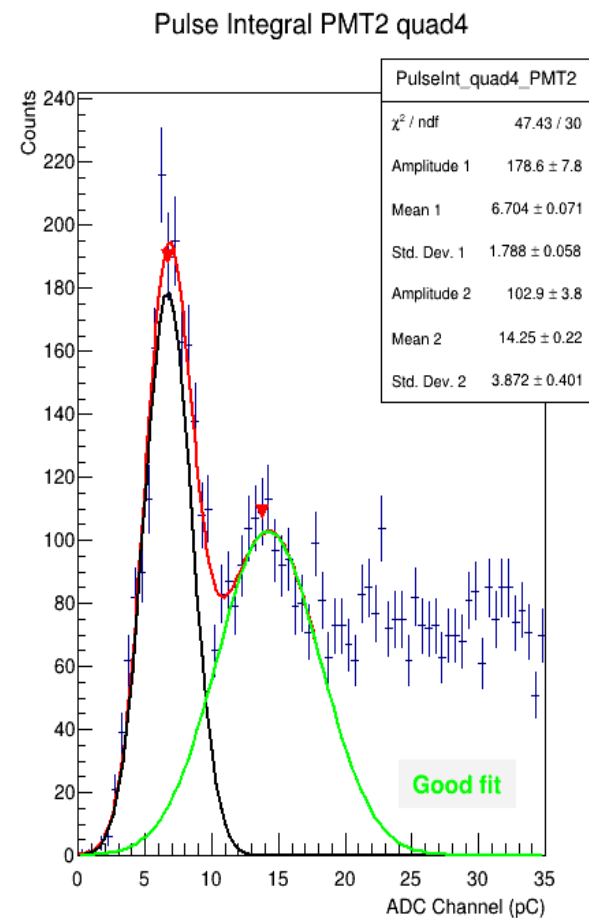
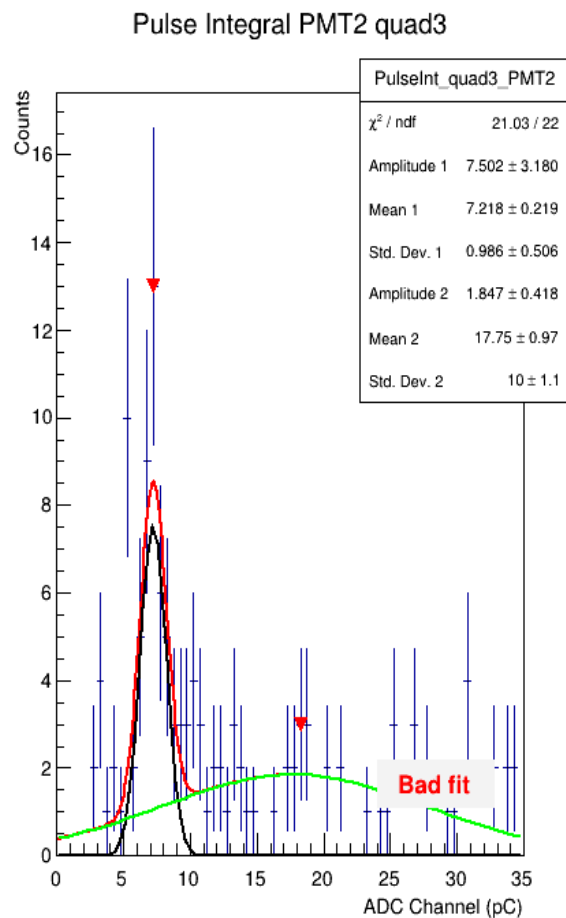
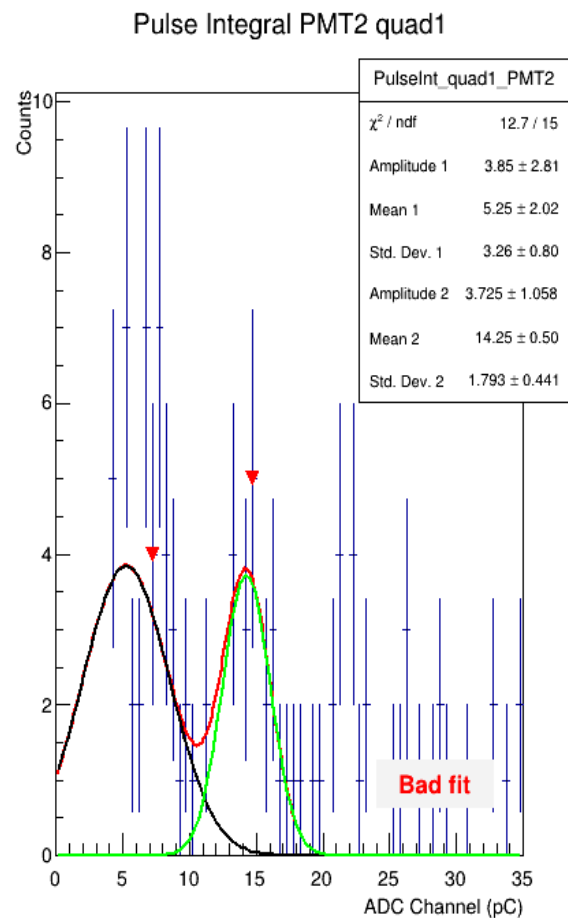
PMT1



Run Numbers 7979, 7980

SHMS Positive polarity

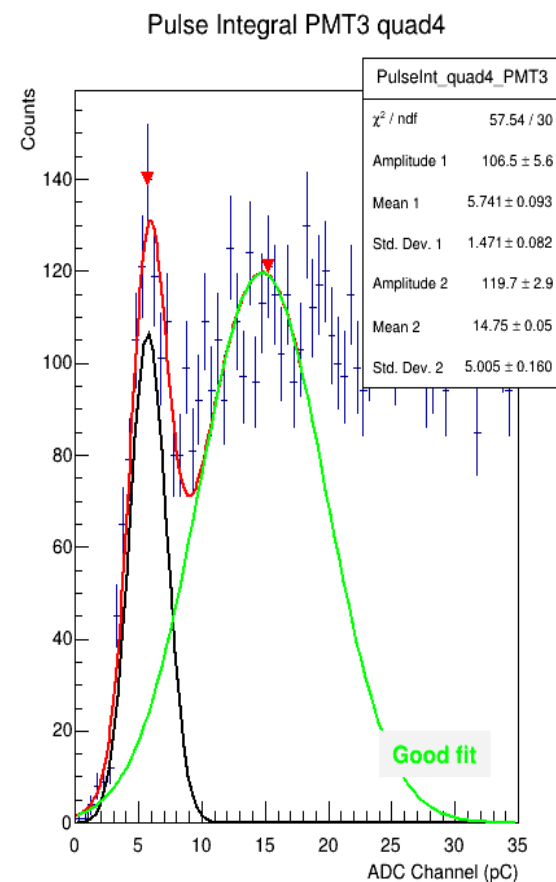
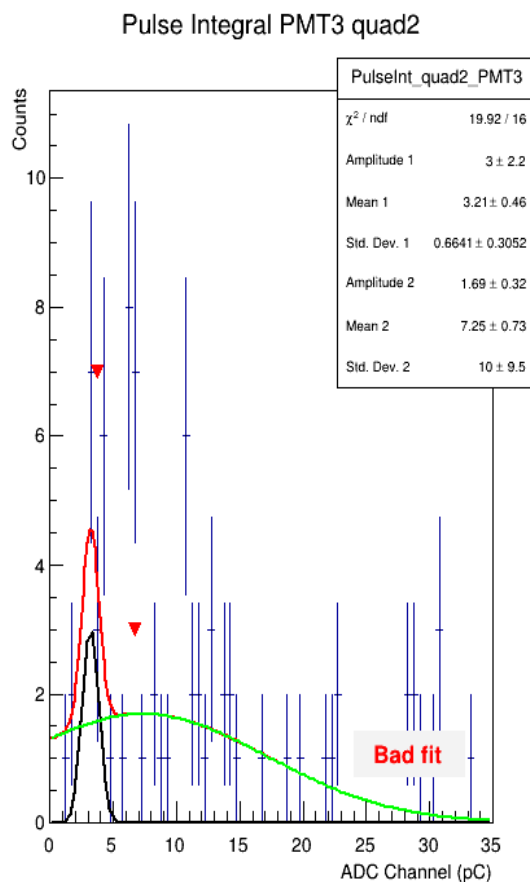
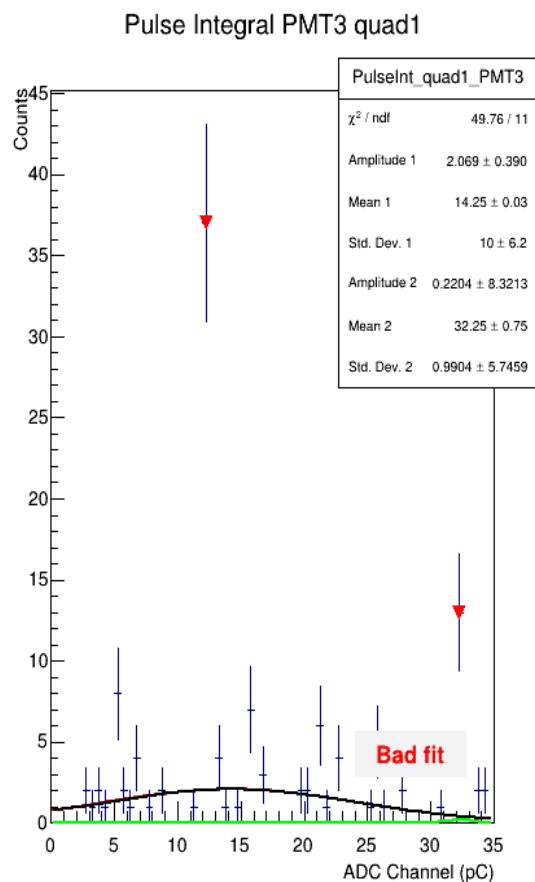
PMT2



Run Numbers 7979, 7980

SHMS Positive polarity

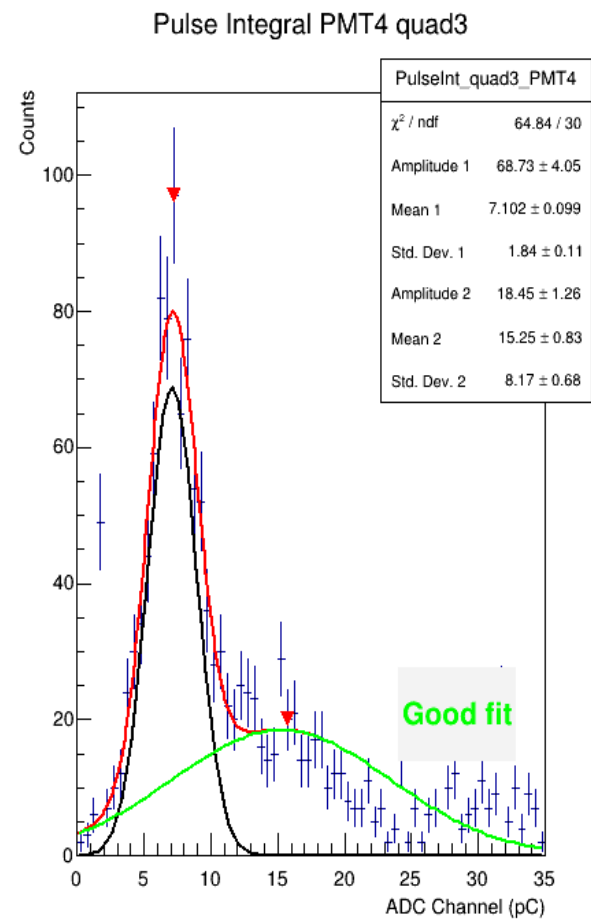
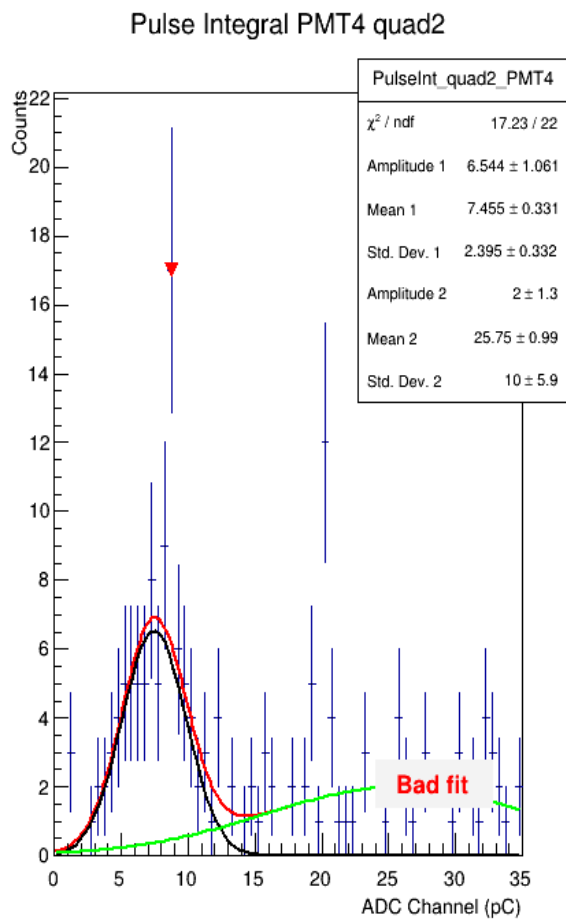
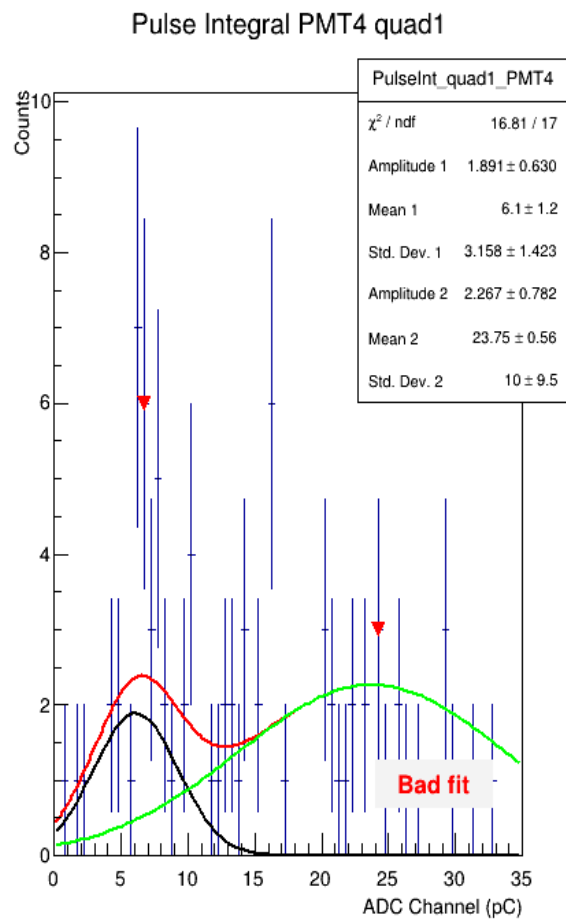
PMT3



Run Numbers 7979, 7980

SHMS Positive polarity

PMT4



Run Numbers 7979, 7980

Calibration constants

SHMS Positive polarity

Old calibration constants: Badfit did not exclude by the code which is not good

PMT1: 6.485 +/- 0.043

PMT2: 3.263 +/- 0.049

PMT3: 2.041 +/- 0.055

PMT4: 2.304 +/- 0.057

New calibration constants: Badfit exclude by the code

PMT1: 6.137 +/- 0.044

PMT2: 6.704 +/- 0.071

PMT3: 5.741 +/- 0.093

PMT4: 7.102 +/- 0.099

Online calibration constants: Garth H. gain calibration from 4721, Sept 27 2018

PMT1: 6.26

PMT2: 7.30

PMT3: 5.85

PMT4: 6.98